

Héctor Vargas  
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### Profile

A Faculty-Administrator with a results orientation and more than 25 years of experience in Higher Education, exercising effective application of Systems View and Strategic Planning in the Academic Affairs domain: curriculum design, learning assessment, faculty evaluation, budgeting, project management. Always a Team Player, a Team Builder, and Change and Continuous Improvement advocate.

### Education

**ACE Fellow, Class 2006-2007: Webster University, 2007.**

**M.S.E., Industrial Engineering, Arizona State University, 1990.**

Concentration: Computer Integrated Manufacturing.

Engineering Report: Network connection between ASU CIMRC and CETYS University.

**B.E., Industrial Engineering, CETYS University, Mexicali, Baja California, México, 1976.**

Concentration: Production, planning and control.

Thesis: Organizational Behavior in Mexican Organizations.

### Experience

**1. Director of Academic and Planning and Effectiveness, 2007 to date.**

**Main duties: Academic Planning, Assessment, Periodic Review Programs, WASC accreditation.**

**Major Accomplishments:**

- \* Development and implementation of an Assessment Model for CETYS University.
- \* Development and implementation of E-Portfolio for CETYS University.
- \* Help CETYS to receive Candidacy Status from WASC.

**2. Dean of the College of Engineering and Fulltime Faculty, 2004 to 2007.**

CETYS University System.

**Main duties:** Curriculum Design, Strategic Planning, Institutional Accreditation, Learning Assessment, and Teaching.

**Major accomplishments:**

- \* Completion of a major revision of the 6 curricular programs of the College in half the expected time and developing a new standardized curriculum which will be easy to manage.
- \* Complete the design of three new engineering programs, in a record time for CETYS standards, that will upgrade the College portfolio from 13 to 18 programs, making CETYS University the number two Institution, among all the universities in the Baja State, with the more new and vast offering of Engineering Programs.
- \* Development of a Standardized Curriculum Template that it is being used in the formulation of course programs and speeds up the curriculum design activity.
- \* Help the President's Staff in the development of a Balance Scorecard System for the whole university.
- \* Major contributor in the WASC Capacity Report for the Capacity Phase for the Institutional WASC Accreditation Project.

**3. Dean of Higher Education and Research and Fulltime Faculty, 2001-2003.**

Mexicali Campus of CETYS University System.

Main duties: Strategic Planning, Budget Planning and Control, Faculty Evaluation, Balanced Scorecard Development, Implementation and Operation, Academic Affairs Operations Management, and Teaching.

**4. Dean of Graduate Programs in Engineering, and Fulltime Faculty, 1992-2000.**

Mexicali Campus of CETYS University System.

Main duties: Curriculum Design, Faculty Recruitment, Faculty Evaluation, Strategic Planning, Budget Planning and Control, New Students Recruitment, Marketing and Public Relations, and Teaching.

**5. Professor, 1991.**

School of Engineering at Mexicali Campus of CETYS University System.

Main Duties: Teaching, Strategic Planning for CETYS Computer Integrated Manufacturing Center and Student advising.

**6. Associate Dean of the Engineering School and Fulltime Faculty, 1986-1988.**

Mexicali Campus of CETYS University System.

Main duties: Class Scheduling, Part Time Faculty Recruitment, Student Advising Services, Fulltime Faculty Coordinator, Curriculum Design and Implementation, and Teaching.

**7. Chair of Industrial Engineering Programs and Fulltime Faculty, 1981-1985.**

Engineering School at Mexicali Campus of CETYS University System.

Main duties: Student Advising, Internships Programs, Curriculum Management for two Industrial Engineering Programs, and Teaching.

**8. Associate Professor, 1977-1980.**

Engineering School at Mexicali Campus of CETYS University System.

Main duties: Teaching, Student Advising, and Service to the Engineering School.

**Publications****Books and monographs**

1. Vargas, Héctor. Simulación de Evento Discreto. Mexicali, B.C., México: CETYS University, Engineering Series, 2007.

2. Vargas, Héctor, José Luis Bonilla, Adriana López, Alberto Gárate, Elva Carrillo. Universidad, formación y práctica docente. Hilos de un sendero en brumas. Mexicali, Baja California, México: CETYS University Graduate College of CETYS University, 2005.

3. Vargas, Héctor. Discrete event simulation. Mexicali, Baja California, México: CETYS University, 2004.

4. Vargas, Héctor. Industrial Engineering Applications. Mexicali, Baja California, México: CETYS University, 2003.

5. Vargas, Héctor. Notes on Discrete Event Simulation. Mexicali, Baja California, México: CETYS University, 1996.

**Articles and essays**

1. Vargas, Héctor (2008). Definiendo el trabajo del docente. Journal Arquetipos of CETYS University System, number of January-April.
2. Vargas, Héctor (2006). Hey dude: your lips move, but I can't hear what you are saying. Journal Arquetipos of CETYS University System, number of January-April.
3. Vargas, Héctor (2005). Y de tarea para la siguiente clase.....Journal Arquetipos of CETYS University System, number of January-April.
4. Vargas, Héctor (2004). La globalización y sus efectos en el capital humano. Daily News La Voz de la Frontera.
5. Vargas, Héctor (2003). Administración y Complejidad en las Organizaciones. Journal Arquetipos of CETYS University System, number of August-December.
6. Vargas, Héctor (2003). De la Educación y otras cosas dizque afines.... Journal Arquetipos of CETYS University System, Number of May-August.
7. Vargas, Héctor (1997). Reflexiones sobre la práctica docente. Daily News La Crónica.
8. Vargas, Héctor (1997). Rumbos futuros de la simulación computacional. Daily News La Crónica.
9. Vargas, Héctor (1995). Simulación: soluciones reales a problemas reales. Daily News La Crónica.
10. Vargas, Héctor (1994). Simulación: mucho más que una herramienta. Journal Vanguardia, number of August.
11. Vargas, Héctor (1994). Disciplinas concurrentes: una docencia óptima. Journal Vanguardia, number of June.
12. Vargas, Héctor, Sol R. Brambila (1996). Perfil del Estudiante de Postgrado en Ingeniería, resultados de una encuesta. CETYS University.
13. Vargas, Héctor, Sol R. Brambila (1996). Quiénes estudian postgrado en ingeniería. Daily News La Crónica.
14. Vargas, Héctor (1998). Perfil socioeconómico del estudiante de postgrado en ingeniería del CETYS, Campus Mexicali. CETYS University.
15. Vargas, Héctor (1993). El Justo a Tiempo. Journal El Águila, number of February.
16. Vargas, Héctor (1993). La Misión del CETYS desde el punto de vista de la Planeación Estratégica. Journal Vanguardia, Number of February.
17. Vargas, Héctor (1992). El JIT una alternativa más o la mejor alternativa. Journal Vanguardia, number of May.

18. Vargas, Héctor (1992). Uso o desuso de la Investigación Operativa en los sistemas de la actividad humana de Mexicali. Journal Vanguardia, number of December.
19. Vargas, Héctor (1991). Manufactura de clase mundial y planeación estratégica. Journal Vanguardia, number of November.
20. Vargas, Héctor (1991). La Ingeniería Industrial de los Tiempos Modernos. Journal Vanguardia, number of March.

### **Presentations and consulting activities**

1. Vargas, Héctor, 2007. An Overview of Higher Education in México. This was a presentation for the ACE Fellows 06-07 Class and as part of the Mid Year Seminar Program. The event took place in San Francisco, CA.
2. Vargas, Héctor, 2007. The United States and México Relations. This was a presentation for the Alumni Body of Webster University and as part of the Great Decisions Speakers Series. St. Louis, MO.
3. Vargas, Hector, 2007. The Higher Education System of Mexico, an Overview. This was a presentation at Webster University for first year students interested in Internationalism, and as part of the Center for International Education (CIE) activities. St. Louis, MO.
4. Vargas, Hector, 2001. The Performance of Engineering Students in Internship Programs. A panel conference that took place at the Instituto Tecnológico de Mexicali in Baja California, México.
5. Vargas, Héctor, 2001. Facing New Realities. A panel conference that took place at CETYS University in the Mexicali Campus, and as a part of the XVIII Engineering Symposium. Mexicali, Baja California, México.
6. Vargas, Héctor, 2001. Advantages and Disadvantages of the Maquiladora Industry. First International Symposium of Industrial Engineering at the Autonomous University of Baja California in Mexicali, México.
7. Vargas, Héctor, 2001. The Educational Model of CETYS University. 2<sup>nd</sup> Seminar of Vocational Professionals: A Guide for Tomorrow. This event took place at Mexicali Campus of CETYS University. Mexicali, Baja California, México.
8. Vargas, Héctor, 1998. The University Professor and his Contribution to the Ethics Development of Engineering Students. 3<sup>rd</sup> National Colloquium on Education. This event took place at Mexicali Campus of CETYS University. Mexicali, Baja California, México.
9. Vargas, Héctor, 1996. The Virtues of Manufacturing to Achieve Economic Growth. XIII Engineering Symposium. This event took place at Mexicali Campus of CETYS University. Mexicali, Baja California, México.
10. Vargas, Héctor. 1996. Role of the University in a Modern World. 2<sup>nd</sup> National Colloquium on Education. This event took place at Tijuana Campus of CETYS University. Tijuana, Baja California, México.
11. Vargas, Héctor, 1996. SONY: Mars 2000 Project. This was a consulting job on Manufacturing Operations Analysis for SONY's local assembly plant. Mexicali, Baja California, Mexico.

12. Vargas, Héctor, 1993. Strategic Planning. This presentation took place at the School of Business and Accounting of the Autonomous University of Baja California. Mexicali, Baja California, México.

13. Vargas, Héctor, 1993. Just in Time Manufacturing. X Engineering Symposium. This event took place at Mexicali Campus of CETYS University. Mexicali, Baja California, México.

14. Vargas, Hector, 1992. Design and Implementation of a Pull System in a Manufacturing Cell Environment. This was a consulting job on JIT Manufacturing for Kenworth's local plant. Mexicali, Baja California, México.

15. Vargas, Héctor, 1992. Strategic Planning. IX Engineering Symposium. This event took place at Mexicali Campus of CETYS University. Mexicali, Baja California, México.

#### **Fellowships**

- Banco de México Fellow (Arizona State University), \$30,000.
- American Council of Education Fellow (Webster University, main campus), \$12,000.

#### **Skills and qualifications**

- Fluent in Spanish and English.
- Microsoft Office, VISIO, Internet, Blackboard.
- Simulation skills in Simnet, Slam, Promodel, and I Think.

#### **Professional affiliations**

- Member, since 1995, of the Institute of Industrial Engineers (IIE), and also a member of the Institute for Operations Research and the Management Sciences (INFORMS).

#### **References**

Excellent references available upon request.